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(FILE 'HOME' ENTERED AT 18:26:00 ON 22 SEP 2009)

L1 FILE 'REGISTRY' ENTERED AT 18:26:16 ON 22 SEP 2009
STRUCTURE UPLOADED
D
L2 29 SEA SSS SAM L1
L3 874 SEA SSS FUL L1

L4 FILE 'ZCAPLUS' ENTERED AT 18:27:37 ON 22 SEP 2009
215 SEA ABB=ON PLU=ON L3
D L4 215 IBIB HITSTR

L5 FILE 'REGISTRY' ENTERED AT 18:29:46 ON 22 SEP 2009
STRUCTURE UPLOADED
D
L6 598 SEA SUB=L3 SSS FUL L5
L7 STRUCTURE UPLOADED
D
L8 443 SEA SUB=L6 SSS FUL L7
L9 STRUCTURE UPLOADED
D
L10 134 SEA SUB=L8 SSS FUL L9

L11 FILE 'ZCAPLUS' ENTERED AT 18:33:40 ON 22 SEP 2009
36 SEA ABB=ON PLU=ON L10
L12 24 SEA ABB=ON PLU=ON L11 AND (PRD<=20030502 OR PD<=20030502)
L13 24 SEA ABB=ON PLU=ON L12 AND (PRD<20030502 OR PD<20030502)
D L13 1-24 IBIB HITSTR

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 21 SEP 2009 HIGHEST RN 1185984-45-5
DICTIONARY FILE UPDATES: 21 SEP 2009 HIGHEST RN 1185984-45-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

FILE ZCAPLUS

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FILE COVERS 1907 - 22 Sep 2009 VOL 151 ISS 13
FILE LAST UPDATED: 21 Sep 2009 (20090921/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

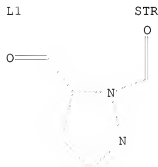
ZCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

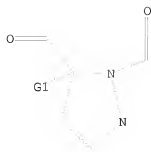
<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/CAPLUS family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 9.



Structure attributes must be viewed using STN Express query preparation.
L3 874 SEA FILE=REGISTRY SSS FUL L1
L5 STR

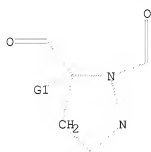


G1 H,Ak

Structure attributes must be viewed using STN Express query preparation.

L6 598 SEA FILE=REGISTRY SUB=L3 SSS FUL L5

L7 STR

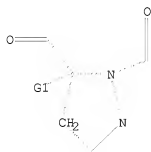


G1 H,Ak

Structure attributes must be viewed using STN Express query preparation.

L8 443 SEA FILE=REGISTRY SUB=L6 SSS FUL L7

L9 STR



G1 H,Ak

Structure attributes must be viewed using STN Express query preparation.

L10 134 SEA FILE=REGISTRY SUB=L8 SSS FUL L9

L11 36 SEA FILE=ZCAPLUS ABB=ON PLU=ON L10

L12 24 SEA FILE=ZCAPLUS ABB=ON PLU=ON L11 AND (PRD<=20030502 OR

L13 PD<=20030502)
24 SEA FILE=ZCAPLUS ABB=ON PLU=ON L12 AND (PRD<20030502 OR
PD<20030502)



chain nodes :

6 7 8 9

ring nodes :

1 2 3 4 5

chain bonds :

3-6 4-8 6-7 8-9

ring bonds :

1-2 1-5 2-3 3-4 4-5

exact/norm bonds :

1-2 1-5 2-3 3-4 3-6 4-5 4-8 6-7 8-9

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS



```

chain nodes :
  6  7  8  9 12
ring nodes :
  1  2  3  4  5
chain bonds :
  3-6  3-12  4-8  6-7  8-9
ring bonds :
  1-2  1-5  2-3  3-4  4-5
exact/norm bonds :
  1-2  1-5  2-3  3-4  3-6  3-12  4-5  4-8  6-7  8-9
isolated ring systems :
  containing 1 :

```

G1:H,Ak

```

Match level :
  1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:CLASS  7:CLASS  8:CLASS  9:CLASS 12:CLASS

```



```

chain nodes :
  6  7  8  9 12
ring nodes :
  1  2  3  4  5
chain bonds :
  3-6  3-12  4-8  6-7  8-9
ring bonds :
  1-2  1-5  2-3  3-4  4-5
exact/norm bonds :
  1-2  1-5  2-3  3-4  3-6  3-12  4-5  4-8  6-7  8-9
isolated ring systems :
  containing 1 :

```

G1:H,Ak

```

Match level :
  1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:CLASS  7:CLASS  8:CLASS  9:CLASS 12:CLASS

```



```

chain nodes :
  6  7  8  9 12
ring nodes :
  1  2  3  4  5
chain bonds :
  3-6  3-12  4-8  6-7  8-9
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  1-2  1-5  2-3  3-4  4-5
exact/norm bonds :
  1-2  1-5  2-3  3-4  3-6  3-12  4-5  4-8  6-7  8-9
isolated ring systems :
  containing 1 :

```

G1:H,Ak

```

Match level :
  1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:CLASS  7:CLASS  8:CLASS  9:CLASS 12:CLASS

```